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World Intellectual Property Organization (WIPO) - Geneva, Switzerland  
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PCT/482005/000456



INVESTOR IN PEOPLE

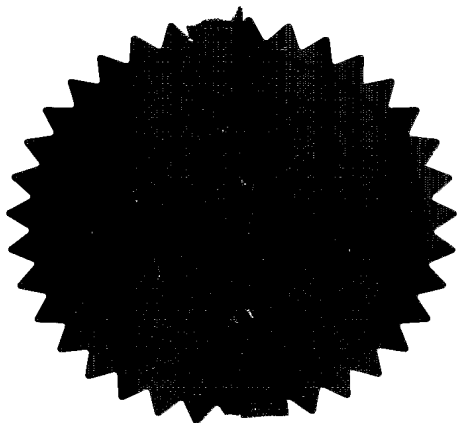
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NP10 8QQ

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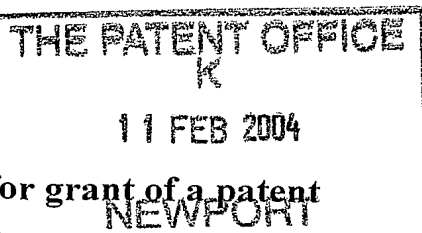
*Stephen Hordley*

Signed

Dated 9 March 2005



Patent 1977



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P01/7700 0.00-0402928.6 ACCOUNT CHA

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(See the notes on the back of this form. You can also get an explanatory leaflet from the Patent Office to help you fill in this form).

The Patent Office

Cardiff Road  
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Gwent NP9 1RH

1. Your reference **EAL/AH-P/6627.GBA**

2. Patent application number **0402928.6**  
(The Patent Office will fill in this part)

3. Full name, address and postcode of the or of each applicant (*underline all surnames*)  
**ALASTAIR BENN**  
**4 Butterfield Road**  
**WICKHAMSTEAD**  
**Herts AL4 8PU**

**08805384001**

Patents ADP number (*if you know it*)

If the applicant is a corporate body, give the country/state of its incorporation

4. Title of the invention **HEATING RADIATOR/TOWEL RAIL**

5. Name of your agent (*if you have one*) **Hulse & Co**  
"Address for service" in the United Kingdom to which all correspondence should be sent (*including the postcode*)  
**St James House,**  
**8<sup>th</sup> Floor**  
**Vicar Lane**  
**Sheffield S1 2EX**

Patents ADP number (*if you know it*) **885002 ✓**

6. If you are declaring priority from one or more earlier patent applications, give the country and the date of filing of the or of each of these earlier applications and ( <i>if you know it</i> ) the or each application number	Country	Priority application number ( <i>if you know it</i> )	Date of filing ( <i>day/month/year</i> )

7. If this application is divided or otherwise derived from an earlier UK application, give the number and the filing date of the earlier application	Number of earlier application	Date of filing ( <i>day/month/year</i> )

8. Is a statement of inventorship and the right to grant of a patent required in support of this request? (*Answer 'Yes' if:*  
a) any applicant named in part 3 is not an inventor, or  
b) there is an inventor who is not named as an applicant, or  
c) any named applicant is a corporate body.  
See note (d))

**NO**

# Patents Form 1/77

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Continuation sheets of this form

Description 3

Claim(s) -

Abstract -

Drawing(s) 2 Sheets (informal) + 2 R

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Priority documents

Translations of priority documents

Statement of Inventorship and right to grant of a patent (*Patents Form 7/77*)

Request for preliminary examination and search (*Patents Form 9/99*)

Request for substantive examination (*Patents Form 10/77*)

Any other documents  
(please specify)

11.

I/We request the grant of patent on the basis of this application.

Signature

Date

10 February 2004

AS AGENTS FOR THE APPLICANT

12. Name and daytime telephone number of person to contact in the United Kingdom

Mr E A LONG

(0114) 276 9381

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## Notes

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**Title of the Invention**

Heating Radiator/Towel Rail

**Field of the Invention**

5 This invention relates to a heating radiator/towel rail.

**Background of the Invention**

10 The trend to extend image and/or information display systems to bathrooms, particularly hotel bathrooms is indicated by proposals such as PCT/GB02/02944 to inset a TV monitor into a bathroom wall, and EP 1168285 to incorporate a TV monitor into a mirror. Both involve substantial structural work and possibly re-tiling or re-decorating resulting in heavy installation costs and non-availability of the hotel room until completion.

15 **Object of the Invention**

A basic object of the invention is the provision of an improved heating radiator/towel rail.

**Summary of the Invention**

20 According to the present invention, there is provided a heating radiator or towel rail, particularly for installation in a bathroom such as a hotel bathroom, incorporating a TV or similar media/audio-visual/audio or visual display device with either built in, or separate speakers.



### Advantages of the Invention

The heating radiator/towel rail in accordance with the invention permits simple installation e.g. into an existing bathroom, rather than the need for any major building works. However, the radiator/towel rail could equally well be installed in a kitchen or any other room, either residential, commercial, or industrial.

### Preferred or Optional Features of the Invention

The radiator/towel rail is heatable electrically.

The radiator/towel rail is adapted to be connected to a (water filled) central heating system and hence is of any industry-standard radiator/towel rail length to enable use to be made of existing piping/connections with minimal plumbing work.

The TV or similar device is inset into the radiator/towel rail, such that the TV is flush, or substantially so, with a surface of the radiator/towel rail.

The TV or similar device is surface mounted onto, or into, the radiator/towel rail.

The TV or similar device, is attached to a back box.

Speakers and power supply means are also attached to the back box.

A cable entry/exit hole is provided in the back box.

The back box is of stainless steel or other non-rusting material.

An open front of the back box is closed off by a glass screen.

The engagement of the glass screen and the back box is in a water and vapour sealing manner.

A mirror vision film is located over an inner surface of the glass screen.

A black p.v.c. layer, with an aperture appropriate to the size of the TV screen, is located at the inner surface of the mirror vision film.





The back box is fixed to a frame portion of the radiator/towel rail.

The TV or similar device is remotely controlled.

The TV or similar device is provided with manual buttons/knobs.

The buttons/knobs are remotely mounted.

5 The TV or similar device is controlled by an external source e.g. a computer.

The TV or similar device is controlled by some form of touch sensor.

The radiator/towel rail unit is IP rated to enable it to moisture resistant or even waterproof.

The radiator/towel rail incorporates a mirror.

10 The radiator/towel rail utilises the "mirror vision" principle of a two-way mirror covering the screen, looking like a conventional mirror when the media type is switched off, but being viewable through when the media type is switched on.

### Drawings

15 One example of radiator/towel rail is shown in the accompanying drawing(s), in which:

Figures 1, 2 and 3 show schematically three alternative heating radiator/towel rails in accordance with the invention; and

20 Figure 4 shows, again schematically, one construction of heating radiator/towel rail.



1/2

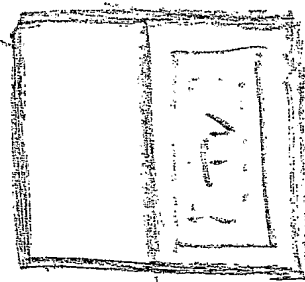
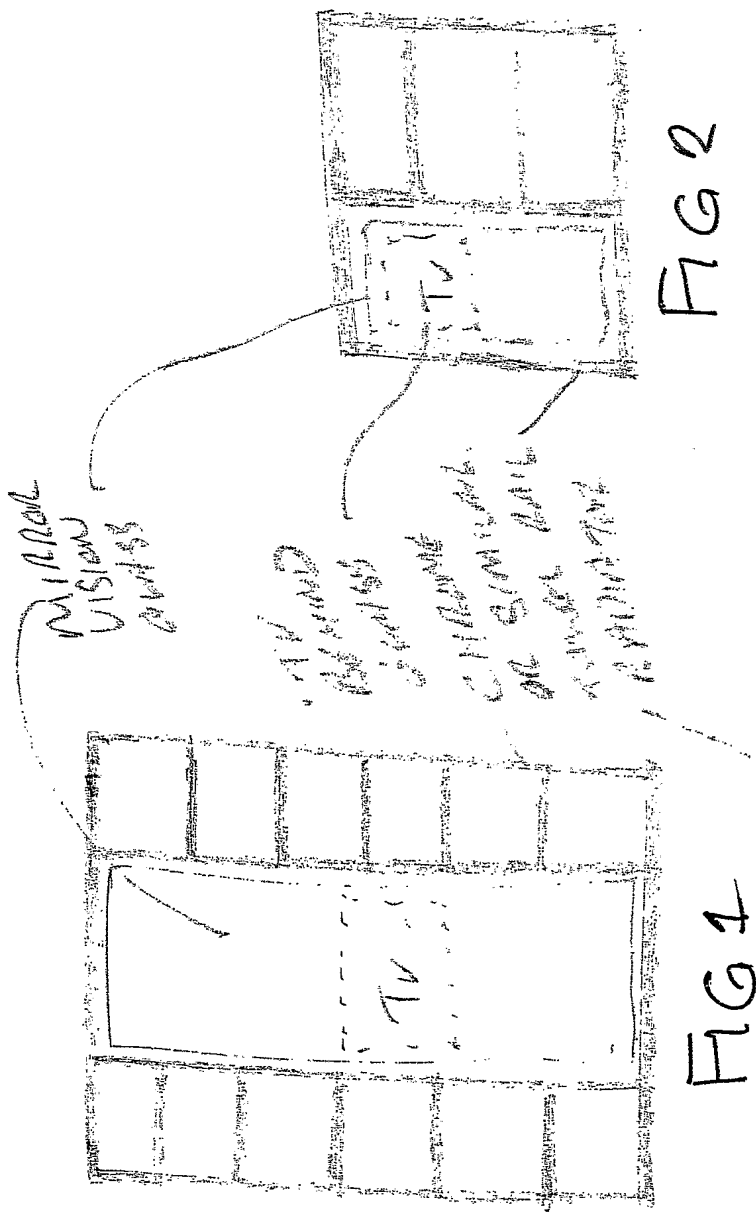
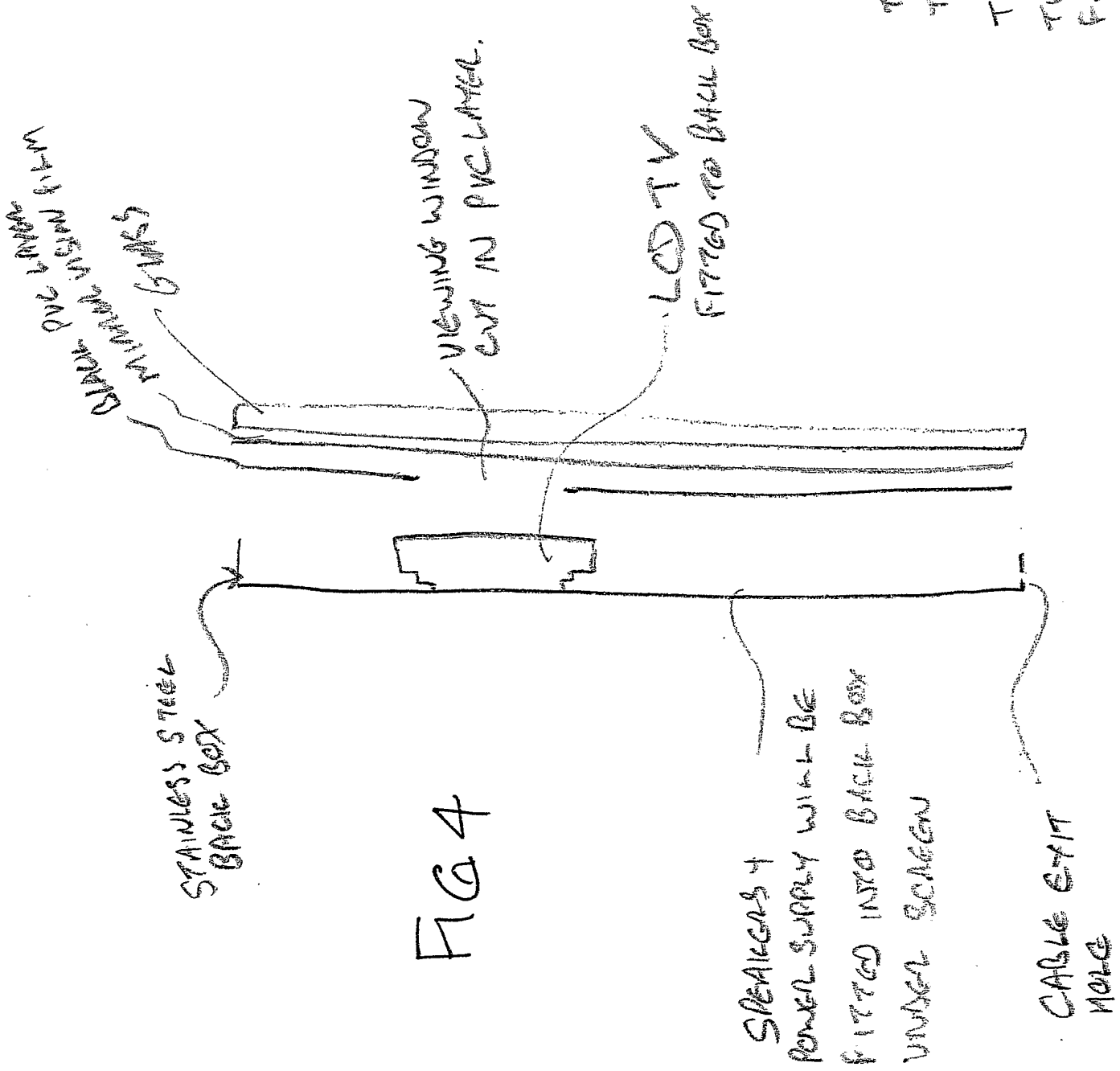


FIG 3

IDEAS OF AERAVISION ROOMS  
RAILS.



FIG 4



BACK BOX WILL BE FIXED TO TUNNEL RAIL FRAME AS NECESSARY TO GIVE WATERPROOF FINISH TV CAN LOOK "INVISIBLE" WHEN TURNED OFF, DUE TO MINOR DISCREPANCY FINISH (OPTION)

MANUFACTURING SCHEMATIC ON PROVISION TUNNEL RAILS

